

Application Number 10/599134
Response to the Office Action dated August 14, 2008

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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A plasma display panel comprising a display electrode and an address electrode,

the plasma display panel further comprising a dielectric layer formed on ~~at least one electrode selected from the group consisting of the display electrode and the address electrode,~~

wherein the dielectric layer includes glass having the following composition, as its main constituent element:

0 to 15 wt% SiO₂;

10 to 50 wt% B₂O₃;

26 to 50 wt% ZnO;

0.01 to 10 wt% Al₂O₃;

2 to 30 wt% Bi₂O₃;

0 to 0.1 wt% PbO; and

5 to 38 wt% RO,

where RO denotes at least one oxide selected from the group consisting of CaO, SrO, and BaO;

a value of $[ZnO / (SiO_2 + Al_2O_3)]$, which is a ratio of a content of the ZnO to total contents of the SiO₂ and the Al₂O₃ in the composition is at least 3;

a value of $[Bi_2O_3 / (B_2O_3 + ZnO)]$, which is a ratio of a content of the Bi₂O₃ to total contents of the B₂O₃ and the ZnO in the composition is more than 0 but not more than 0.5; and

total contents of the ZnO and the Bi₂O₃ in the composition is 35 to 65 wt%.

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2. (Original) The plasma display panel according to claim 1, further comprising a protective layer that is formed to cover the dielectric layer,
wherein the protective layer includes MgO as its main component.
3. (Original) The plasma display panel according to claim 2, wherein the glass has a linear thermal expansion coefficient in a range of 60×10^{-7} to $85 \times 10^{-7}/\text{C}^\circ$ at 30 to 300C° .
4. (Original) The plasma display panel according to claim 2, wherein the dielectric layer is formed by applying a glass paste containing powder of the glass, a solvent, and resin so as to cover the at least one electrode and then baking it.
5. (New) A plasma display panel comprising a display electrode and an address electrode,
the plasma display panel further comprising a dielectric layer formed on the display electrode,
wherein the dielectric layer includes glass having the following composition, as its main constituent element:
0 to 15 wt% SiO_2 ;
10 to 50 wt% B_2O_3 ;
26 to 50 wt% ZnO ;
0.01 to 10 wt% Al_2O_3 ;
2 to 9.5 wt% Bi_2O_3 ;
0 to 0.1 wt% PbO ; and
5 to 38 wt% RO,
where RO denotes at least one oxide selected from the group consisting of CaO, SrO, and BaO.